Figure 1

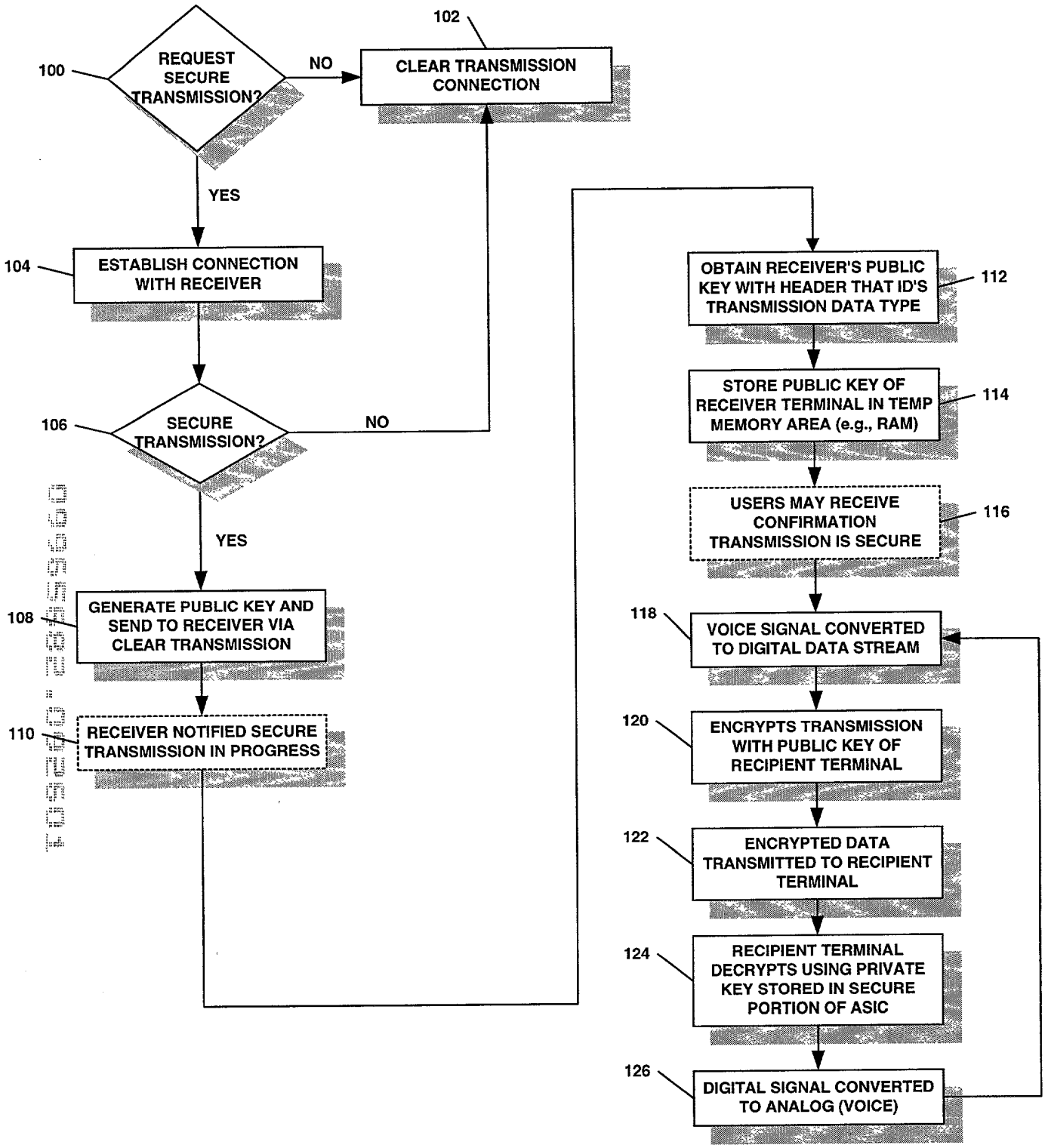
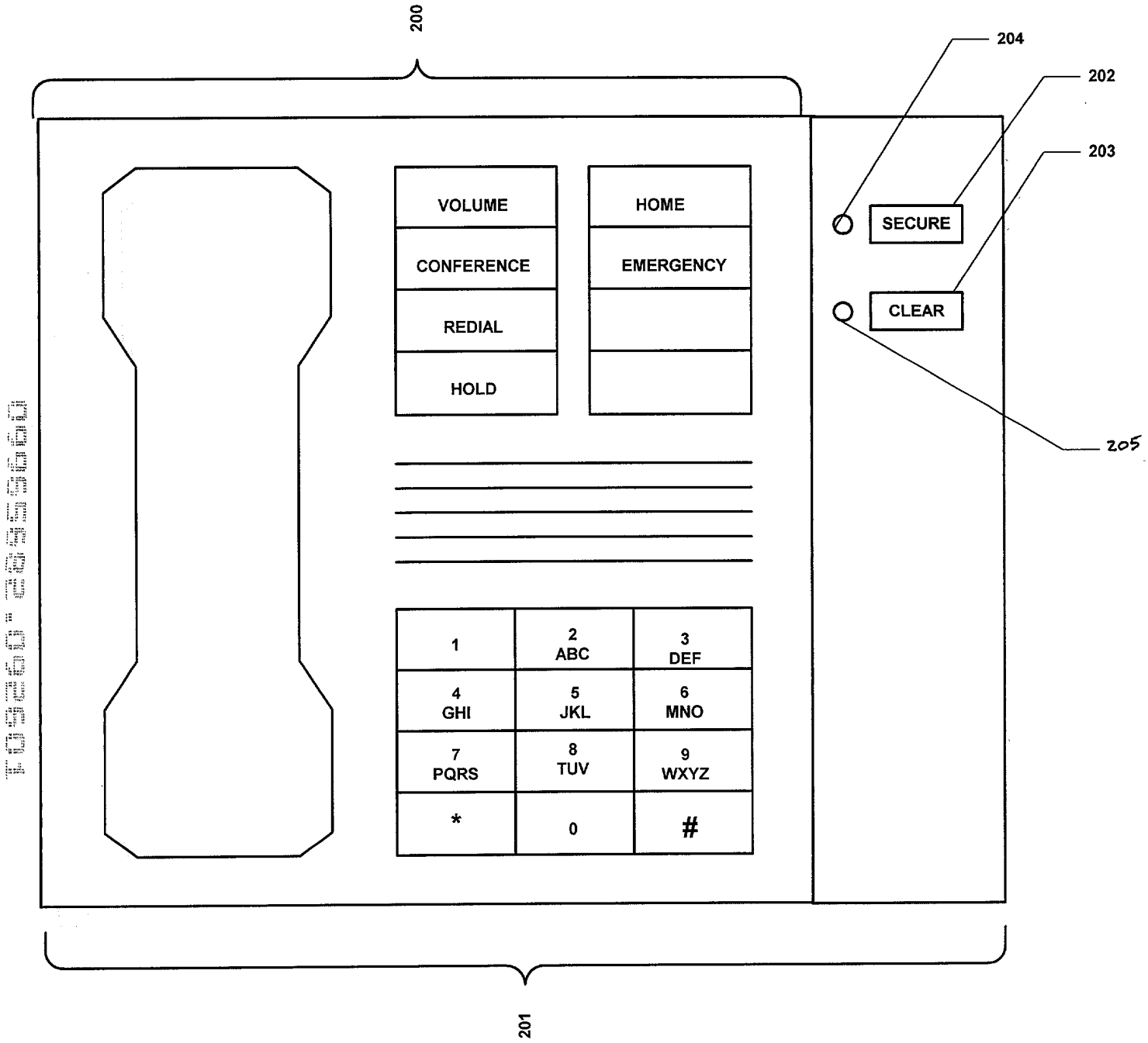

100
REQUEST SECURE TRANSMISSION?
NO
102
CLEAR TRANSMISSION CONNECTION
YES
104
ESTABLISH CONNECTION WITH RECEIVER
106
SECURE TRANSMISSION?
NO
YES
108
GENERATE PUBLIC KEY AND SEND TO RECEIVER VIA CLEAR TRANSMISSION
110
RECEIVER NOTIFIED SECURE TRANSMISSION IN PROGRESS
112
OBTAIN RECEIVER'S PUBLIC KEY WITH HEADER THAT ID'S TRANSMISSION DATA TYPE
114
STORE PUBLIC KEY OF RECEIVER TERMINAL IN TEMP MEMORY AREA (e.g., RAM)
116
USERS MAY RECEIVE CONFIRMATION TRANSMISSION IS SECURE
118
VOICE SIGNAL CONVERTED TO DIGITAL DATA STREAM
120
ENCRYPTS TRANSMISSION WITH PUBLIC KEY OF RECIPIENT TERMINAL
122
ENCRYPTED DATA TRANSMITTED TO RECIPIENT TERMINAL
124
RECIPIENT TERMINAL DECRYPTS USING PRIVATE KEY STORED IN SECURE PORTION OF ASIC
126
DIGITAL SIGNAL CONVERTED TO ANALOG (VOICE)

Figure 2


200
204
202
203
205
VOLUME
HOME
CONFERENCE
EMERGENCY
REDIAL
HOLD
SECURE
CLEAR
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#
201

Doc Code: Appeal

Figure 3

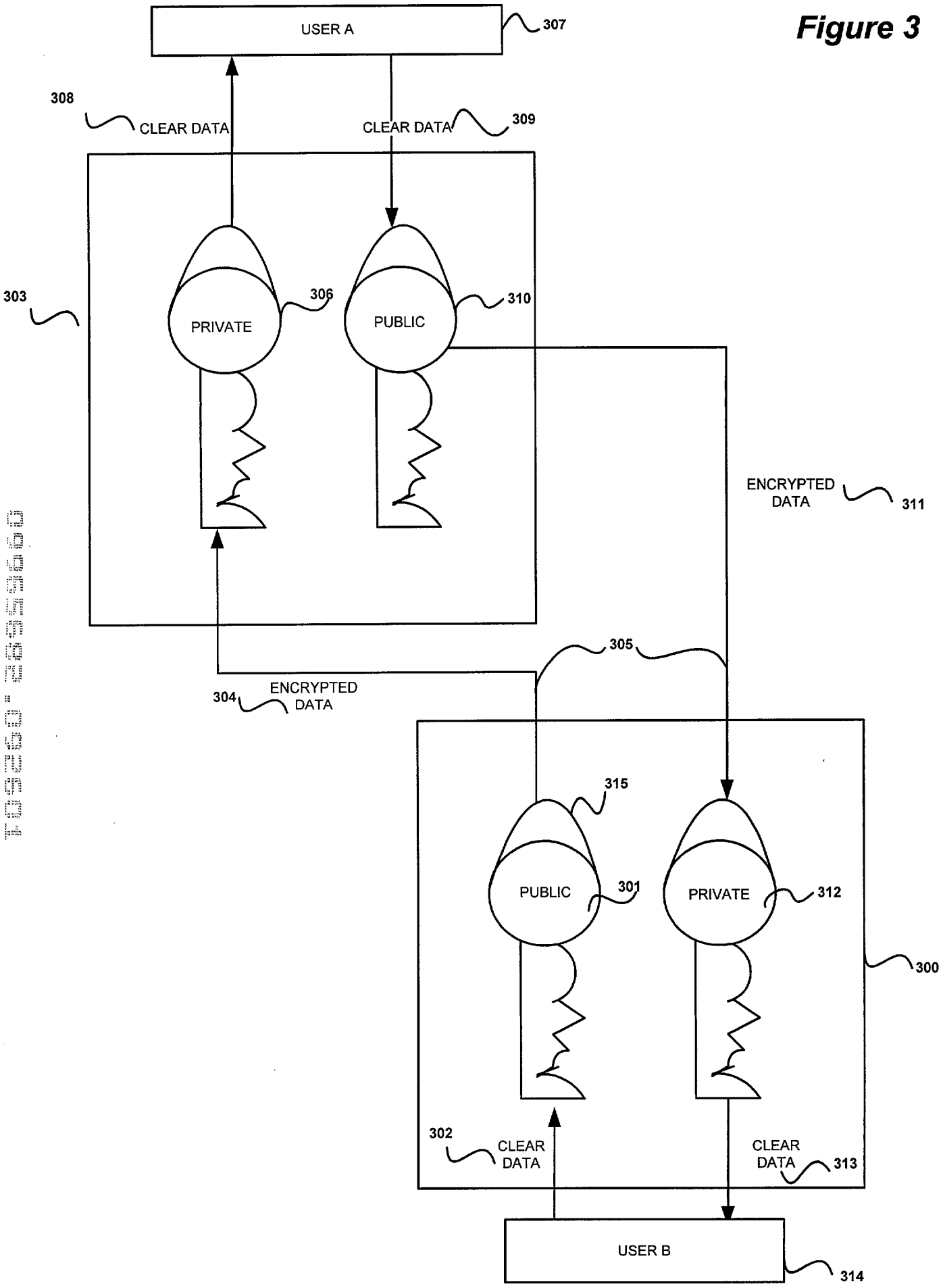


Figure 4

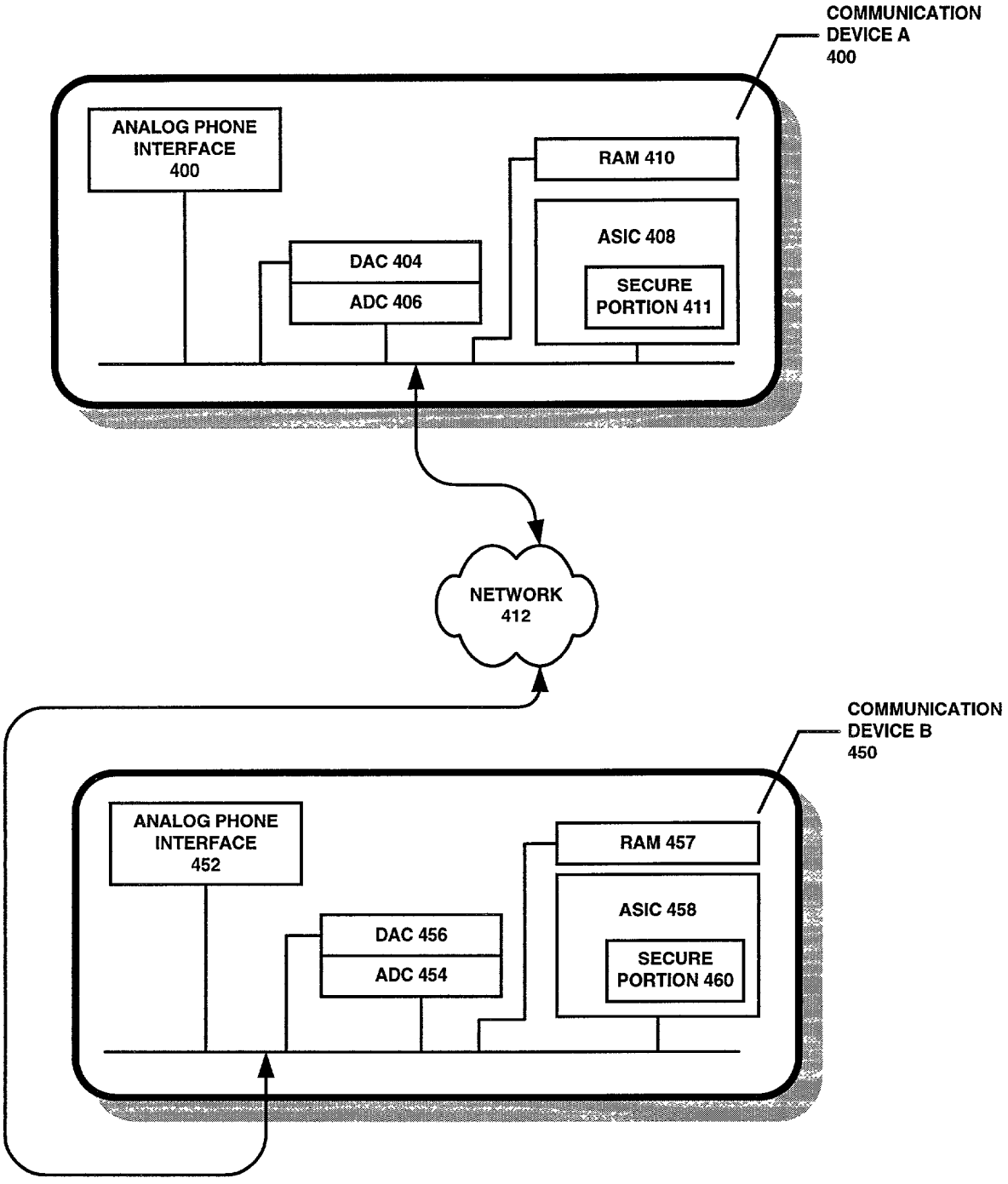
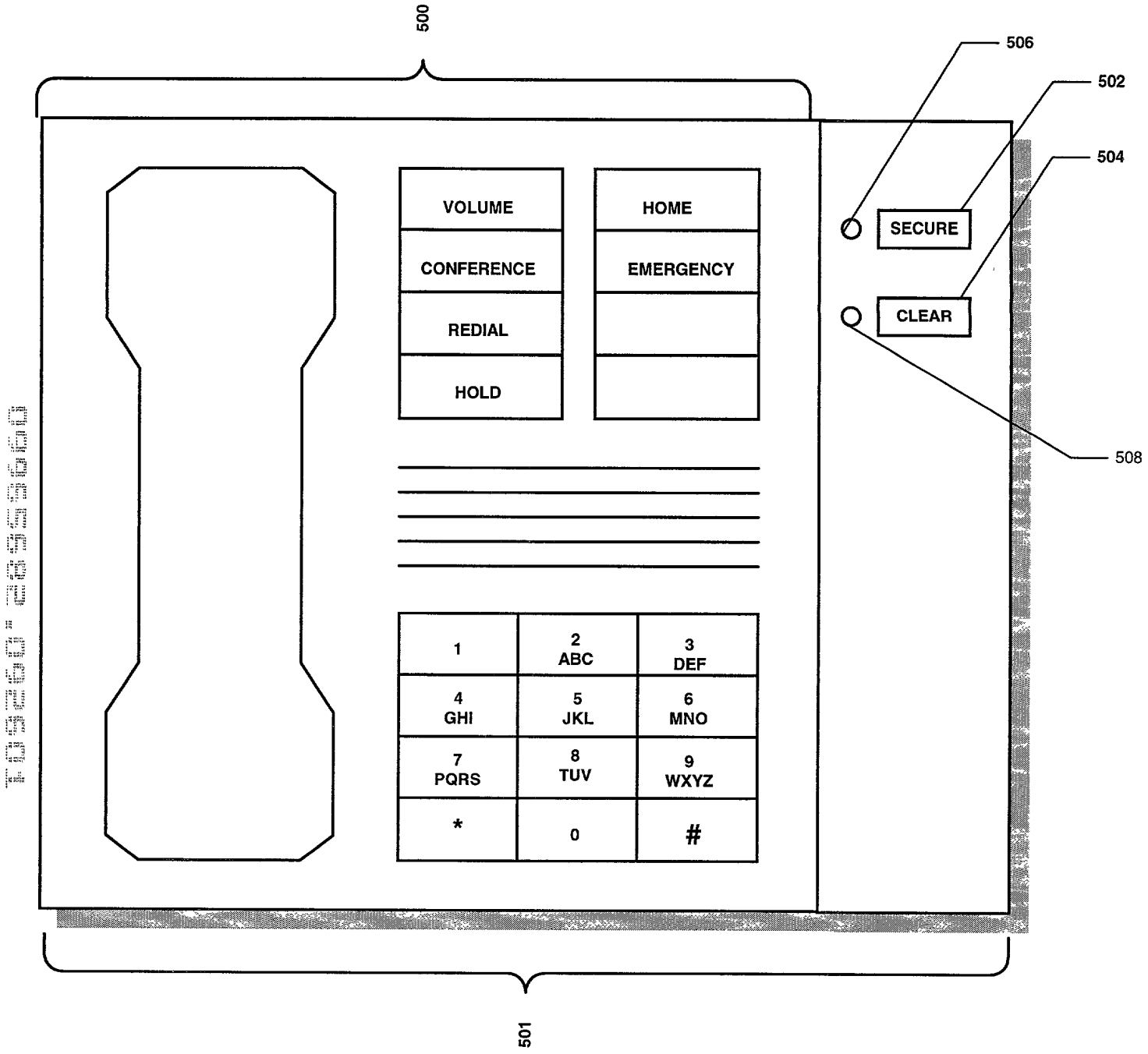

COMMUNICATION DEVICE A 400
ANALOG PHONE INTERFACE 400
RAM 410
ASIC 408
SECURE PORTION 411
DAC 404
ADC 406
NETWORK 412
COMMUNICATION DEVICE B 450
ANALOG PHONE INTERFACE 452
RAM 457
ASIC 458
SECURE PORTION 460
DAC 456
ADC 454

Figure 5


500
506
502
504
508
VOLUME
HOME
CONFERENCE
EMERGENCY
REDIAL
HOLD
SECURE
CLEAR
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#
501

Patent Application Publication

Figure 6

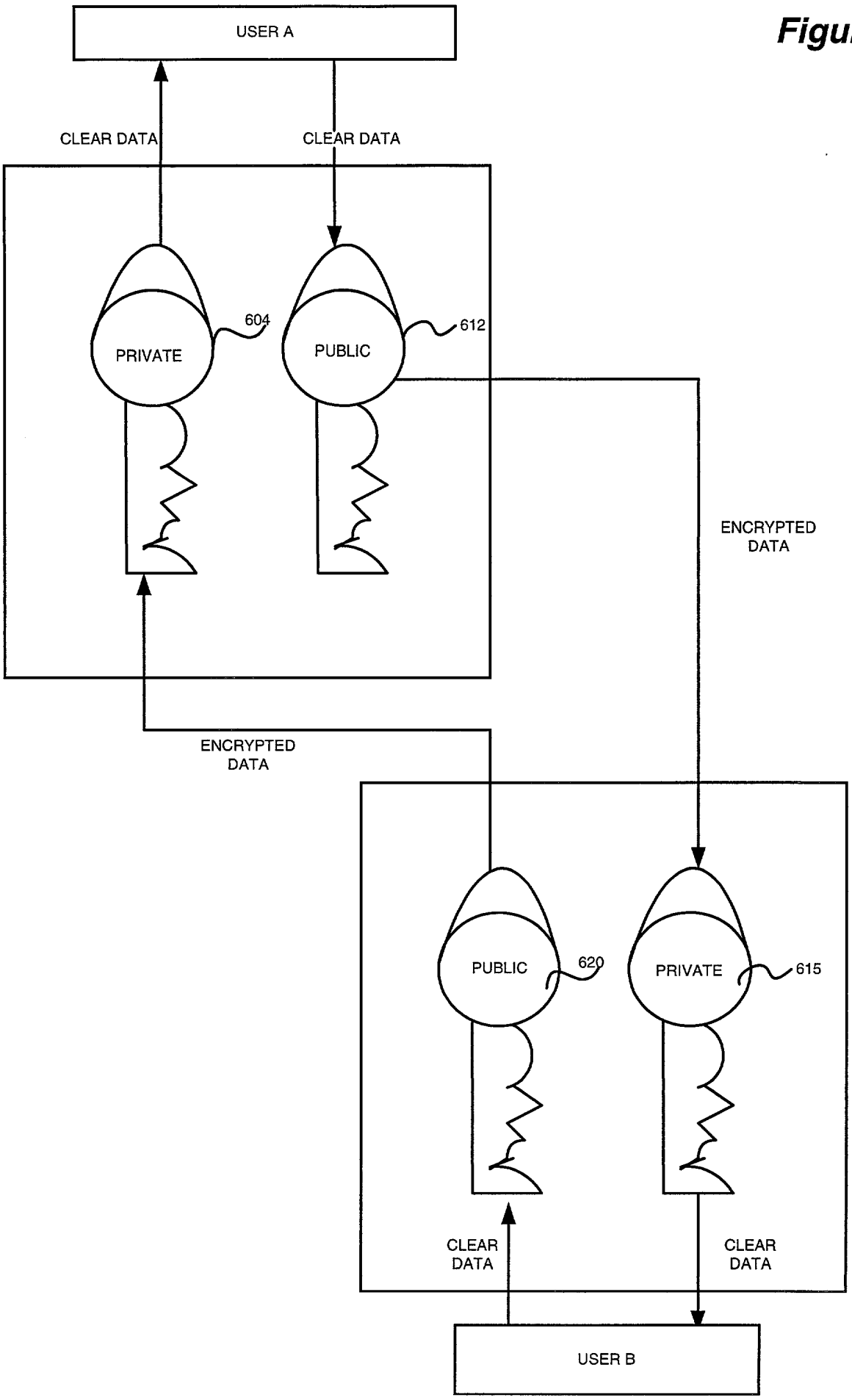
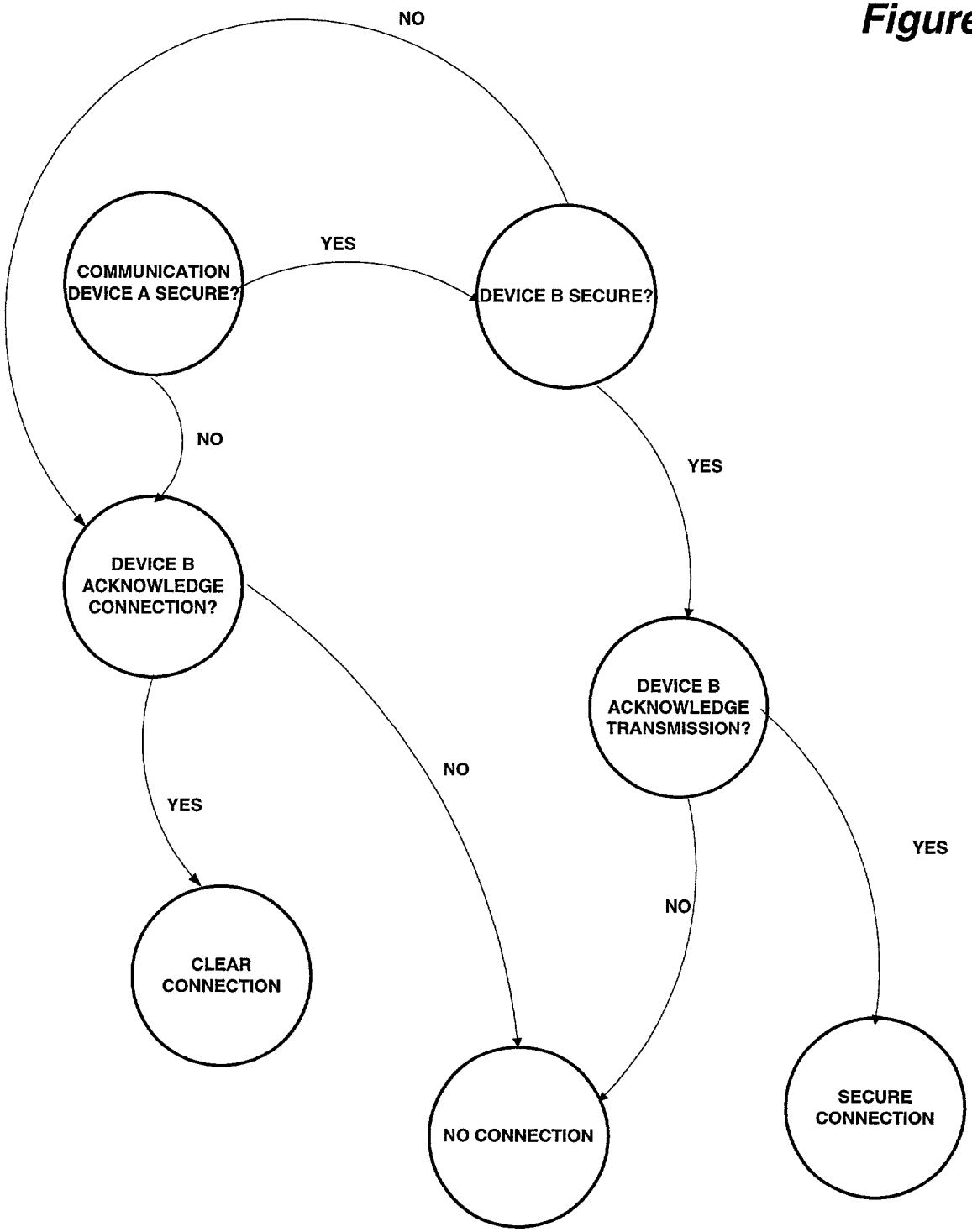


Figure 7



Docket: 2004-0126